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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/781,501

02/17/2004

Seon-Mi Kim

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2992

28249

7590

12/12/2006

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EXAMINER

TRINH, TAN H

ART UNIT

PAPER NUMBER

2618

DATE MAILED: 12/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/781,501

Applicant(s)

KIM, SEON-MI

Examiner

TAN TRINH

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2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 17 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Priority*

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 5-6 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Morgenthaler (U.S. Patent No. 6,310,609).

Regarding claim 5, Morgenthaler teaches a method of guiding a user to a function in a portable terminal (see fig. 1, col. 3, lines 37-64), comprising the steps of: determining whether a keyword corresponding to a function has been received (see figs. 5A-D, col. 5, lines 43-48, col. 6, lines 42-55 and col. 7, lines 4-43); displaying setting information corresponding to the keyword and key information indicating at least one available key and illuminating the at least one available key upon receipt of the keyword (see col. 7, lines 25-51); and performing an operation corresponding to selection of the illuminated at least one available key (see col. 8, lines 5-26).

Regarding claim 6, Morgenthaler teaches the method of claim 5, Morgenthaler further teaches wherein the keyword is entered in text (see col. 7, lines 4-13).

Regarding claim 8, Morgenthaler teaches the method of claim 5, Morgenthaler further teaches wherein in the key illuminating step, if there is a plurality of available keys, the available keys are individually illuminated in at least two colors in the key interface (see col. 4, lines 13-20 and col. 5, lines 34-42).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-2, 4, 9-10 and 12, are rejected under 35 U.S.C. 103(a) as being unpatentable over Morgenthaler (U.S. Patent No. 6,310,609) in view of Henmi (EP 1 085 500).

Regarding claim 1, Morgenthaler teaches a portable terminal (see fig. 1) comprising: a display for displaying guide information for guiding a user to access the function and key information indicating at least one key available to access the function (see fig. 5A-D, col. 3, lines 37-64, col. 5, lines 43-48, col. 6, lines 42-55 and col. 7, lines 4-43 and col. 7, lines 25-51); a key interface having a plurality of keys in hardware or software (see col. 3, lines 36-56, col. 8, lines 44-58), for illuminating the at least one available key according to the key information in response to an input signal (see col. 5, lines 42-48); a storage for storing a manual containing the

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guide information and the key information (see col. 3, lines 37-39 with guides user information, and also see col. 2, lines 48-53). Since the guide information stored in mobile phone and the microprocessor is programmed to the implement a particular menu structure within which the user can select function, in this case the storage is storing the manual of the guiding user information. Morgenthaler further teaches a controller for controlling the display to display the guide information and the key information according to the manual upon receipt of the keyword (see col. 7, lines 25-51 and col. 8, lines 44-58), and for controlling the key interface to illuminate the at least one available key according to the key information (see col. 8, lines 44-58). But Morgenthaler does not mention a voice detector for detecting a keyword uttered by voice corresponding to a function.

However, Henmi teaches a voice detector for detecting a keyword uttered by voice corresponding to a function (see fig. 1, keyword detector 310, col. 1, section [0002] and col. 2, sections [0011-0012]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify above teaching of Morgenthaler and by providing of the teaching of Henmi on user utters the keyword, thereto in order to provide keyword uttered by voice and a no more need to actuate a button as a hand free operation (see Henmi col. 2, section [0012]).

Regarding claim 2, Morgenthaler teaches wherein the keyword can be entered in text through the key interface and the controller interprets the text keyword (see col. 7, lines 4-13). and further Henmi teaches the voice keyword (see fig. 1, keyword detector 310, col. 1, section

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[0002] and col. 2, sections [0011-0012]). Therefore, the combination of Morgenthaler and Henmi is teaching the text keyword and the voice keyword is operation as the same keyword.

Regarding claim 4, the combination of Morgenthaler and Henmi teaches the portable terminal of claim 1, Morgenthaler further teaches wherein, if there is a plurality of available keys, the available keys are individually illuminated in at least two colors in the key interface (see col. 4, lines 13-20 and col. 5, lines 34-42).

Regarding claim 9, Morgenthaler teaches an electronic device (see fig. 1) comprising: a display for displaying guide information for guiding a user to access the function and key information indicating at least one available key to access the function (see fig. 5A-D, col. 3, lines 37-64, col. 5, lines 43-48, col. 6, lines 42-55 and col. 7, lines 4-43 and col. 7, lines 25-51); a key interface having a plurality of keys in hardware or software (see col. 3, lines 36-56, col. 8, lines 44-58), for illuminating the at least one available key according to the key information requested by an input signal (see col. 5, lines 42-48); a storage for storing a manual containing the guide information and the key information (see col. 3, lines 37-39 with guides user information, and also see col. 2, lines 48-53). Since the guide information stored in mobile phone and the microprocessor is programmed to the implement a particular menu structure within which the user can select function, in this case the storage is storing the manual of the guiding user information. Morgenthaler further teaches a controller for controlling the display to display the guide information and the key information according to the manual upon receipt of the keyword (see col. 7, lines 25-51 and col. 8, lines 44-58), and for controlling the key interface to

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illuminate the at least one available key according to the key information (see col. 8, lines 44-58). But Morgenthaler does not mention a voice detector for detecting a keyword uttered by voice corresponding to a function.

However, Henmi teaches a voice detector for detecting a keyword uttered by voice corresponding to a function (see fig. 1, keyword detector 310, col. 1, section [0002] and col. 2, sections [0011-0012]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify above teaching of Morgenthaler and by providing of the teaching of Henmi on user utters the keyword, thereto in order to provide keyword uttered by voice and a no more need to actuate a button as a hand free operation (see Henmi col. 2, section [0012]).

Regarding claim 10, Morgenthaler teaches wherein the keyword can be entered in text through the key interface and the controller interprets the text keyword (see col. 7, lines 4-13). and further Henmi teaches the voice keyword (see fig. 1, keyword detector 310, col. 1, section [0002] and col. 2, sections [0011-0012]). Therefore, the combination of Morgenthaler and Henmi is teaching the text keyword and the voice keyword is operation as the same keyword.

Regarding claim 12, the combination of Morgenthaler and Henmi teaches the electronic device of claim 9, Morgenthaler further teaches wherein the keys are individually illuminated in at least two colors in the key interface (see col. 4, lines 13-20 and col. 5, lines 34-42).

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6. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Morgenthaler (U.S. Patent No. 6,310,609) in view of Matsumoto (U.S. Patent No. 7,017,125).

Regarding claim 7, Morgenthaler teaches wherein while displaying setting information (see fig. 1, col. 3, lines 37-56), the key information is displayed and the at least one available key is illuminated (see fig. 5A-D, col. 3, lines 37-64, col. 5, lines 43-48). But Morgenthaler does not mention the key information is output by voice.

However, Matsumoto teaches the key information is output by voice (see fig. 6A-B, col. 6, lines 24-38).

Therefore, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify above teaching of Morgenthaler and by providing of the teaching of Matsumoto on voice information, thereto in order to provide help contents with voice output when user is under circumstance where the display screen is invisible (see Matsumoto col. 6, lines 34-36).

7. Claims 3 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morgenthaler (U.S. Patent No. 6,310,609) in view of Henmi (EP 1 085 500) further in view of Matsumoto (U.S. Patent No. 7,017,125).

Regarding claims 3 and 11, Morgenthaler teaches the key information is displayed on the display and the at least one available key is illuminated (see fig. 5A-D, col. 3, lines 37-64, col. 5, lines 43-48). But Morgenthaler does not mention a voice reader for outputting the key information by voice under the control of the controller.



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However, Matsumoto teaches a voice reader for outputting the key information by voice under the control of the controller (see fig. 4, help process by voice A6, and fig. 6A-B, col. 6, lines 24-38 and col. 7, lines 10-11).

Therefore, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify above combination of the teaching of Morgenthaler and Henmi, with Matsumoto on voice information, thereto in order to provide help contents with voice output when user is under circumstance where the display screen is invisible (see Matsumoto col. 6, lines 34-36).

### ***Conclusion***

**8. Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

**(571) 273-8300, (for Technology Center 2600 only)**

*Hand-delivered responses should be brought to the Customer Service Window (now located at the **Randolph Building, 401 Dulany Street, Alexandria, VA 22314**).*

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan Trinh whose telephone number is (571) 272-7888. The examiner can normally be reached on Monday-Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiners supervisor, Anderson, Matthew D., can be reached at (571) 272-4177.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Technology Center 2600 Customer Service Office** whose telephone number is (703) 306-0377.

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tan H. Trinh  
Division 2618  
November 29, 2006

**PATENT EXAMINER**  
**TRINH, TAN**

